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(57) Abstract:

**PURPOSE:** To realize a self-diagnostic function by modulating a test voice or a test tone or a test data with a reception carrier at self-diagnosis, looping back the modulated wave to a reception side in its own station and demodulating the wave, and discriminating whether or not the transmission/ reception operation is normal depending on the demodulation output.

**CONSTITUTION:** When the self-diagnosis is required, a start switch 10 is thrown and high frequency changeover switches 6, 9 receive switching control by a control signal from a controller 11. Thus, a small power transmission wave outputted from a modulation section 2 is fed from the high frequency changeover switch 6 to a mixer 4, in which an output of an oscillator 1 and the transmission wave are mixed and a received wave is outputted from the mixer 4. Then the received wave is demodulated by a demodulation section 8 via the high frequency changeover switch 9 and the demodulated wave is outputted into the space from a speaker 7 as sound. Thus, the self-diagnostic function is realized through one-chip circuit integration.

